

**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 5**

IN THE MATTER OF:

**Cardinal FG Company
2200 Stokke Parkway
Menomonie, Wisconsin, 54751**

ATTENTION:

**Mark Piper
Environmental Compliance Director**

Request to Provide Information Pursuant to the Clean Air Act

The U.S. Environmental Protection Agency is requiring Cardinal FG Company (Cardinal or you) to submit certain information about the facility at 2200 Stokke Parkway, Menomonie, Wisconsin. Appendix A provides the instructions needed to answer this information request, including instructions for electronic submissions. Appendix B specifies the information that you must submit. You must send this information to us within 45 calendar days after you receive this request.

We are issuing this information request under Section 114(a) of the Clean Air Act (the CAA), 42 U.S.C. § 7414(a). Section 114(a) authorizes the Administrator of EPA to require the submission of information. The Administrator has delegated this authority to the Director of the Air and Radiation Division, Region 5.

Cardinal owns and operates an emission source at the Menomonie, Wisconsin facility. We are requesting this information to determine whether your emission source is complying with the Wisconsin State Implementation Plan, including the Prevention of Significant Deterioration requirements.

Cardinal must send all required information to:

Attn: Compliance Tracker, AE-18J
Air Enforcement and Compliance Assurance Branch
U.S. Environmental Protection Agency
Region 5
77 W. Jackson Boulevard
Chicago, Illinois 60604

Cardinal must submit all required information under an authorized signature with the following certification:

I certify under penalty of law that I have examined and am familiar with the information in the enclosed documents, including all attachments. Based on my inquiry of those individuals with primary responsibility for obtaining the information, I certify that the statements and information are, to the best of my knowledge and belief, true and complete. I am aware that there are significant penalties for knowingly submitting false statements and information, including the possibility of fines or imprisonment pursuant to Section 113(c)(2) of the Clean Air Act and 18 U.S.C. §§ 1001 and 1341.

As explained more fully in Appendix C, you may assert a claim of business confidentiality under 40 C.F.R. Part 2, Subpart B for any part of the information you submit to us. Information subject to a business confidentiality claim is available to the public only to the extent, and by means of the procedures, set forth at 40 C.F.R. Part 2, Subpart B. If you do not assert a business confidentiality claim when you submit the information, EPA may make this information available to the public without further notice. You should be aware, moreover, that pursuant to Section 114(c) of the CAA and 40 C.F.R. § 2.301(a) and (f), emissions data, standards and limitations are not entitled to confidential treatment. Appendix C provides additional information regarding the meaning and scope of the term “emissions data.”

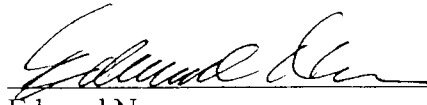
This information request is not subject to the Paperwork Reduction Act, 44 U.S.C. § 3501 *et seq.*, because it seeks collection of information from specific individuals or entities as part of an administrative action or investigation.

We may use any information submitted in response to this request in an administrative, civil or criminal action.

Failure to comply fully with this information request may subject Cardinal to an enforcement action under Section 113 of the CAA, 42 U.S.C. § 7413.

You should direct any questions about this information request to Virginia Galinsky at 312-353-2089.

6/4/18
Date



Edward Nam
Director
Air and Radiation Division

Appendix A

When providing the information requested in Appendix B, use the following instructions and definitions.

Instructions

1. Provide a separate narrative response to each question and subpart of a question set forth in Appendix B.
2. Precede each answer with the number of the question to which it corresponds and, at the end of each answer, identify the person(s) who provided information used or considered in responding to that question, as well as each person consulted in the preparation of that response.
3. Indicate on each document produced, or in some other reasonable manner, the number of the question to which it corresponds.
4. When a response is provided in the form of a number, specify the units of measure of the number in a precise manner.
5. Where information or documents necessary for a response are neither in your possession nor available to you, indicate in your response why the information or documents are not available or in your possession, and identify any source that either possesses or is likely to possess the documents or information.
6. If information not known or not available to you as of the date of submission later becomes known or available to you, you must supplement your response. Moreover, should you find at any time after the submission of your response that any portion of the submitted information is false or incorrect, you must notify EPA as soon as possible.

Electronic Submissions

To aid in our electronic recordkeeping efforts, we request that you provide all documents responsive to this information request in an electronic format according to paragraphs 1 through 6, below. These submissions are in lieu of hard copy.

1. Provide all responsive documents in Portable Document Format (PDF) or similar format, unless otherwise requested in specific questions. If the PDFs are scanned images, perform at least Optical Character Recognition (OCR) for "image over text" to allow the document to be searchable. Submitters providing secured PDFs should also provide unsecured versions for EPA use in repurposing text.
2. When specific questions request data in electronic spreadsheet form, provide the data and corresponding information in editable Excel or Lotus format, and not in image format. If Excel or Lotus formats are not available, then the format should allow for data to be used in calculations by a standard spreadsheet program such as Excel or Lotus.

3. Provide submission on physical media such as compact disk, flash drive or other similar item.
4. Provide a table of contents for each compact disk or flash drive containing electronic documents submitted in response to our request so that each document can be accurately identified in relation to your response to a specific question. *We recommend the use of electronic file folders organized by question number.* In addition, each compact disk or flash drive should be labeled appropriately (e.g., Company Name, Disk 1 of 4 for Information Request Response, Date of Response).
5. Documents claimed as confidential business information (CBI) must be submitted on separate disks/drives apart from the non-confidential information. This will facilitate appropriate records management and appropriate handling and protection of the CBI. Please follow the instructions in Appendix C for designating information as CBI.
6. Certify that the attached files have been scanned for viruses and indicate what program was used.

Definitions

All terms used in this information request have their ordinary meaning unless such terms are defined in the CAA, 42 U.S.C. §§ 7401 *et seq.*

1. The terms “document” and “documents” shall mean any object that records, stores, or presents information, and includes writings, memoranda, records, or information of any kind, formal or informal, whether wholly or partially handwritten or typed, whether in computer format, memory, or storage device, or in hardcopy, including any form or format of these. If in computer format or memory, each such document shall be provided in translation to a form useable and readable by EPA, with all necessary documentation and support. All documents in hard copy should also include attachments to or enclosures with any documents.
2. The term “relate to” (or any form thereof) shall mean constituting, reflecting, representing, supporting, contradicting, referring to, stating, describing, recording, noting, embodying, containing, mentioning, studying, analyzing, discussing, evaluating or relevant to.
3. The term "capital appropriation request" shall mean any document used by plant personnel in seeking management approval for planned expenditures at the Facility. These documents are also known as authorizations for expenditure, capital requests or other, similar names.

Appendix B

Information You Are Required to Submit to EPA

Cardinal must submit the following information pursuant to Section 114(a) of the CAA, 42 U.S.C. § 7414(a):

1. For the glass furnace at the facility, provide the following, on a daily average basis, from April 1, 2010 to the present:
 - a. Actual production of glass;
 - b. Natural gas consumption;
 - c. Average percent sulfur in raw materials;
 - d. Average percent sulfur in the glass product;
 - e. Electric boost consumption (if applicable);
 - f. Average percent cullet; and,
 - g. Sodium carbonate injected.
2. For the glass furnace at the facility, provide the following, on a daily average basis, from April 1, 2010 to the present:
 - a. Emissions of nitrogen oxides, in pounds;
 - b. Emissions of sulfur dioxide, in pounds; and,
 - c. Emissions of particulate matter, in pounds.
3. Provide a list of all capital expenditures greater than \$25,000 commenced at the furnace from April 2010 until the present. This list should identify the date of each project, a brief description of each project, a breakdown of expenses, vendor information, and the fixed capital cost of each project in nominal dollars.
4. For each project identified in response to Question Number 3, which has a capital expenditure greater than \$50,000, provide copies of all capital appropriation requests, financial justifications, and authorizations, including attachments and addenda, generated by or prepared on behalf of the facility or its predecessors concerning that project.
5. For the furnace rebricking that occurred in March to April 2018, provide the information requested in a. through i. of this Question as it existed just before the rebricking and as it existed just after the rebricking.
 - a. As built drawings;
 - b. Please state the capacity of the furnace in the ways listed below. Provide an explanation of how each capacity value was calculated.
 - i. Maximum design rated capacity (tons/day) of the furnace alone;
 - ii. Actual maximum capacity of the furnace (tons/day), taking into account any physical or operational constraints and restrictions;
 - iii. Holding capacity (tons);

- iv. Physical size of the furnace (length x width in feet and depth in inches);
 - v. Melting capacity (tons/hr);
 - vi. Maximum pull achieved on the furnace for each campaign (tons/day); and
 - vii. Average monthly tons of glass produced during the furnace campaign (tons/day).
- c. The maximum heat input capacity per hour of the furnace from all heat sources including but not limited to fuel firing and electric boost;
 - d. The maximum heat input capacity of the furnace from fuel firing (MMBtu/hr). List the type(s) of fuel used and specify the separate firing capacities for each type of fuel used. Also, identify the fuels the furnace was or is permitted to use and which fuel was or is considered the primary fuel;
 - e. The maximum heat input capacity from electric boost (KVA);
 - f. The ratio of the refiner area to the melter area;
 - g. The ratio of the port area to the melter area;
 - h. The ratio of the checker volume (volume in the regenerators) to the melter area; and;
 - i. A description of the burner design (e.g. end-port regenerative, oxyfuel) and the make, manufacturer and throughput of each burner.
6. Provide copies of all correspondence with the Wisconsin Department of Natural Resources (WDNR) relating to Exemption Number 15-MHR-036-EXM, issued May 29, 2015.
 7. Provide copies of all documentation, including emails and internal correspondence, from April 1, 2010 to the present, that relate to the maximum glass pull rate of the furnace.
 8. Provide copies of all documentation, including emails and internal correspondence, from January 1, 2014 to the present, that relate to increasing the production rate of the furnace to 600 tons per day or greater.
 9. Provide copies, from January 1, 2014 to the date of receipt of this letter, of all written correspondence, determinations, or communications with WDNR concerning the applicability of the Prevention of Significant Deterioration requirements to the construction and/or modification of any equipment at the facility.
 10. Provide copies of all documents generated on or after January 1, 2014, related to the applicability of the Prevention of Significant Deterioration requirements.
 11. Provide all records and notices generated since January 1, 2014, pursuant to 40 C.F.R. § 52.21(r)(6).

Appendix C

Confidential Business and Personal Privacy Information

Assertion Requirements

You may assert a business confidentiality claim covering any parts of the information requested in the attached Appendix B, as provided in 40 C.F.R. § 2.203(b).

Emission data provided under Section 114 of the CAA, 42 U.S.C. § 7414, is not entitled to confidential treatment under 40 C.F.R. Part 2.

“Emission data” means, with reference to any source of emissions of any substance into the air:

Information necessary to determine the identity, amount, frequency, concentration or other characteristics (to the extent related to air quality) of any emission which has been emitted by the source (or of any pollutant resulting from any emission by the source), or any combination of the foregoing;

Information necessary to determine the identity, amount, frequency, concentration or other characteristics (to the extent related to air quality) of the emissions which, under an applicable standard or limitation, the source was authorized to emit (including to the extent necessary for such purposes, a description of the manner and rate of operation of the source); and

A general description of the location and/or nature of the source to the extent necessary to identify the source and to distinguish it from other sources (including, to the extent necessary for such purposes, a description of the device, installation, or operation constituting the source).

40 C.F.R. § 2.301(a)(2)(i)(A), (B) and (C).

To make a confidentiality claim, submit the requested information and indicate that you are making a claim of confidentiality. Any document for which you make a claim of confidentiality should be marked by attaching a cover sheet stamped or typed with a caption or other suitable form of notice to indicate the intent to claim confidentiality. The stamped or typed caption or other suitable form of notice should employ language such as “trade secret” or “proprietary” or “company confidential” and indicate a date, if any, when the information should no longer be treated as confidential. Information covered by such a claim will be disclosed by EPA only to the extent permitted and by means of the procedures set forth at Section 114(c) of the CAA and 40 C.F.R. Part 2. Allegedly confidential portions of otherwise non-confidential documents should be clearly identified. EPA will construe the failure to furnish a confidentiality claim with your response to the information request as a waiver of that claim, and the information may be made available to the public without further notice to you.

Determining Whether the Information Is Entitled to Confidential Treatment

All confidentiality claims are subject to EPA verification and must be made in accordance with 40 C.F.R. § 2.208, which provides in part that you must satisfactorily show: that you have taken reasonable measures to protect the confidentiality of the information and that you intend to continue to do so, that the information is not and has not been reasonably obtainable by legitimate means without your consent and that disclosure of the information is likely to cause substantial harm to your business's competitive position.

Pursuant to 40 C.F.R. Part 2, Subpart B, EPA may at any time send you a letter asking that you support your confidential business information (CBI) claim. If you receive such a letter, you must respond within the number of days specified by EPA. Failure to submit your comments within that time would be regarded as a waiver of your confidentiality claim or claims, and EPA may release the information. If you receive such a letter, EPA will ask you to specify which portions of the information you consider confidential by page, paragraph and sentence. Any information not specifically identified as subject to a confidentiality claim may be disclosed to the requestor without further notice to you. For each item or class of information that you identify as being CBI, EPA will ask that you answer the following questions, giving as much detail as possible:

1. For what period of time do you request that the information be maintained as confidential, e.g., until a certain date, until the occurrence of a special event or permanently? If the occurrence of a specific event will eliminate the need for confidentiality, please specify that event.
2. Information submitted to EPA becomes stale over time. Why should the information you claim as confidential be protected for the time period specified in your answer to question number 1?
3. What measures have you taken to protect the information claimed as confidential? Have you disclosed the information to anyone other than a governmental body or someone who is bound by an agreement not to disclose the information further? If so, why should the information still be considered confidential?
4. Is the information contained in any publicly available databases, promotional publications, annual reports or articles? Is there any means by which a member of the public could obtain access to the information? Is the information of a kind that you would customarily not release to the public?
5. Has any governmental body made a determination as to confidentiality of the information? If so, please attach a copy of the determination.
6. For each category of information claimed as confidential, explain with specificity why release of the information is likely to cause substantial harm to your competitive position. Explain the specific nature of those harmful effects, why they should be viewed as

substantial and the causal relationship between disclosure and such harmful effects. How could your competitors make use of this information to your detriment?

7. Do you assert that the information is submitted on a voluntary or a mandatory basis? Please explain the reason for your assertion. If you assert that the information is voluntarily submitted information, explain whether and why disclosure of the information would tend to lessen the availability to EPA of similar information in the future.
8. Is there any other information you deem relevant to EPA's determination regarding your claim of business confidentiality?

If you receive a request for a substantiation letter from the EPA, you bear the burden of substantiating your confidentiality claim. Conclusory allegations will be given little or no weight in the determination. In substantiating your CBI claim(s), you must bracket all text so claimed and mark it "CBI." Information so designated will be disclosed by EPA only to the extent allowed by and by means of the procedures set forth in 40 C.F.R. Part 2, Subpart B. If you fail to claim the information as confidential, it may be made available to the public without further notice to you.

Personal Privacy Information

Please segregate any personnel, medical and similar files from your responses and include that information on a separate sheet(s) marked as "Personal Privacy Information." Disclosure of such information to the general public may constitute an invasion of privacy.

CERTIFICATE OF MAILING


I certify that I sent a Request to Provide Information Pursuant to the Clean Air Act by
Certified Mail, Return Receipt Requested, to:

Mark Piper
Environmental Compliance Director
Cardinal FG Company
2200 Stokke Parkway
Menomonie, Wisconsin, 54751

I also certify that I sent a copy of the Request to Provide Information Pursuant to the
Clean Air Act by E-mail to:

Maria Hill, Acting Chief
Compliance, Enforcement, and Emission Inventory Section
Maria.Hill@wisconsin.gov

On the 5th day of June 2018.



Kathy Jones, Program Technician
AECAB, PAS

CERTIFIED MAIL RECEIPT NUMBER: 7017 0660 0006 3661 7369